

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING

ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _____

Source: _____

Date Processed by STIC: _____

10/527, 449
PCT
05/04/2006

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/efc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

10/527,449

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 _____ Wrapped Nucleics
Wrapped Aminos The number/text at the end of each line “wrapped” down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent “wrapping.”
- 2 _____ Invalid Line Length The rules require that a line **not exceed** 72 characters in length. This includes white spaces.
- 3 _____ Misaligned Amino
Numbering The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.
- 4 _____ Non-ASCII The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**
- 5 _____ Variable Length Sequence(s) _____ contain n’s or Xaa’s representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 _____ PatentIn 2.0
“bug” A “bug” in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
- 7 _____ Skipped Sequences
(OLD RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for **each** skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where “X” is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where “X” is shown)
This sequence is intentionally skipped
Please also adjust the “(ii) NUMBER OF SEQUENCES:” response to **include** the skipped sequences.
- 8 _____ Skipped Sequences
(NEW RULES) Sequence(s) _____ missing. If **intentional**, please insert the following lines for **each** skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 _____ Use of n’s or Xaa’s
(NEW RULES) Use of n’s and/or Xaa’s have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n’s or Xaa’s are present.
In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.
- 10 _____ Invalid <213>
Response Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence. (see item 11 below)
- 11 _____ Use of <220> Sequence(s) _____ missing the <220> “Feature” and associated numeric identifiers and responses. Use of <220> to <223> is **MANDATORY** if <213> “Organism” response is “Artificial Sequence” or “Unknown.” Please explain source of genetic material in <220> to <223> section or use “chemically synthesized” as explanation. (See “Federal Register,” 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules
- 12 _____ PatentIn 2.0
“bug” Please do not use “Copy to Disk” function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use “File Manager” or any other manual means to copy file to floppy disk.
- 13 _____ Misuse of n/Xaa “n” can **only** represent a single nucleotide; “Xaa” can **only** represent a single amino acid



PCT

RAW SEQUENCE LISTING

DATE: 05/04/2006

PATENT APPLICATION: US/10/527,449

TIME: 13:34:44

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\05042006\J527449.raw

2 <110> APPLICANT: Nuevolution A/S

W--> 3 <120> TITLE OF INVENTION: Proximity-aided synthesis of templated molecules

W--> 4 <130> FILE REFERENCE: TM6-PCT

C--> 5 <140> CURRENT APPLICATION NUMBER: US/10/527,449

C--> 5 <141> CURRENT FILING DATE: 2005-03-11

5 <150> PRIOR APPLICATION NUMBER: DK PA 2002 01347

6 <151> PRIOR FILING DATE: 2002-12-09

7 <150> PRIOR APPLICATION NUMBER: US 60/409,968

8 <151> PRIOR FILING DATE: 2002-12-09

W--> 9 <160> NUMBER OF SEQ ID: 11

10 <170> SOFTWARE: PatentIn version 3.2

W--> 11 <210> SEQ ID NO: 1

12 <211> LENGTH: 21

13 <212> TYPE: DNA

14 <213> ORGANISM: artificial sequence

W--> 15 <220> FEATURE:

16 <223> OTHER INFORMATION: Oligonucleotide used as template in example 1

W--> 17 <220> FEATURE:

18 <221> NAME/KEY: misc_feature

19 <222> LOCATION: (1)..(1)

20 <223> OTHER INFORMATION: n is Amino-Modifier C6 dT (Glen Research Catalogue # 10-1039-90)

W--> 21 <400> SEQUENCE: 1

W--> 22 ncgatggatg ctccaggtcg c 21

23 <210> SEQ ID NO: 2

24 <211> LENGTH: 14

25 <212> TYPE: DNA

26 <213> ORGANISM: artificial sequence

W--> 27 <220> FEATURE:

28 <223> OTHER INFORMATION: Oligonucleotide used for preparing building block 1 in example 1

W--> 29 <220> FEATURE:

30 <221> NAME/KEY: misc_feature

31 <222> LOCATION: (1)..(1)

32 <223> OTHER INFORMATION: n is Biotin phosphoramidite (Glen Research catalogue # 10-1953-95)

W--> 34 <220> FEATURE:

35 <221> NAME/KEY: misc_feature

36 <222> LOCATION: (14)..(14)

37 <223> OTHER INFORMATION: n is C6 S-S thiol modifier (Glen Research catalogue # 10-1936-90)

W--> 38 <400> SEQUENCE: 2

W--> 39 ngagcatcca tcgn 14

40 <210> SEQ ID NO: 3

CP8-8)

Does Not Comply
Corrected Diskette Needed

CP8-1, 3, 7.

n can Respresnts only Single nucleotide, Pls See

Glen
13 on

Error Summary
Sheet.

41 <211> LENGTH: 17
42 <212> TYPE: DNA

RAW SEQUENCE LISTING

DATE: 05/04/2006

PATENT APPLICATION: US/10/527,449

TIME: 13:34:44

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\05042006\J527449.raw

43 <213> ORGANISM: Artificial Sequence

W--> 44 <220> FEATURE:

45 <223> OTHER INFORMATION: Oligonucleotide used in example 1 for preparation of the second building block

W--> 47 <220> FEATURE:

48 <221> NAME/KEY: misc_feature

49 <222> LOCATION: (1)..(1)

50 <223> OTHER INFORMATION: n is Biotin Phosphoramidite (Glen Research, catalogue # 10-1953-95) *Same Error*

W--> 52 <220> FEATURE:

53 <221> NAME/KEY: misc_feature

54 <222> LOCATION: (17)..(17)

55 <223> OTHER INFORMATION: n is C6 S-S thiol modifier (Glen Research, catalogue #10-1936-90) *Same*

W--> 56 <400> SEQUENCE: 3

W--> 57 nctggagcat ccacgn 17

58 <210> SEQ ID NO: 4

59 <211> LENGTH: 22

60 <212> TYPE: DNA

61 <213> ORGANISM: artificial sequence

W--> 62 <220> FEATURE:

63 <223> OTHER INFORMATION: Oligonucleotide used in example 1 for preparation of the third building block

W--> 65 <220> FEATURE:

66 <221> NAME/KEY: misc_feature

67 <222> LOCATION: (1)..(1)

68 <223> OTHER INFORMATION: n is Biotin Phosphoramidite (Glen Research, catalogue # 10-1953-95) *Same Error*

W--> 70 <220> FEATURE:

71 <221> NAME/KEY: misc_feature

72 <222> LOCATION: (22)..(22)

73 <223> OTHER INFORMATION: n is C6 S-S thiol modifier (Glen Research, catalogue #10-1936-90) *Same Error*

W--> 74 <400> SEQUENCE: 4

W--> 75 ngcgacctgg agcatccatc gn 22

76 <210> SEQ ID NO: 5

77 <211> LENGTH: 13

78 <212> TYPE: DNA

79 <213> ORGANISM: Artificial Sequence

W--> 80 <220> FEATURE:

81 <223> OTHER INFORMATION: Oligonucleotide used in example 2 for preparation of a building block

W--> 83 <220> FEATURE:

84 <221> NAME/KEY: misc_feature

85 <222> LOCATION: (13)..(13)

86 <223> OTHER INFORMATION: n is C6 S-S thiol modifier (Glen Research, catalogue #10-1936-90) *Same*

W--> 87 <400> SEQUENCE: 5

W--> 88 gagcatccat cgn 13

89 <210> SEQ ID NO: 6

90 <211> LENGTH: 16

91 <212> TYPE: DNA

RAW SEQUENCE LISTING

DATE: 05/04/2006

PATENT APPLICATION: US/10/527,449

TIME: 13:34:44

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\05042006\J527449.raw

```

92 <213> ORGANISM: Artificial Sequence
W--> 93 <220> FEATURE:
94 <223> OTHER INFORMATION: Oligonucleotide used in example 2 for preparation of a
building
95         block
W--> 96 <220> FEATURE:
97 <221> NAME/KEY: misc_feature
98 <222> LOCATION: (16)..(16)
99 <223> OTHER INFORMATION: Oligonucleotide used in example 2 for preparation of a
building
100        block
W--> 101 <400> SEQUENCE: 6
W--> 102 ctggagcatc catcgn 16
103 <210> SEQ ID NO: 7
104 <211> LENGTH: 21
105 <212> TYPE: DNA
106 <213> ORGANISM: Artificial Sequence
W--> 107 <220> FEATURE:
108 <223> OTHER INFORMATION: Oligonucleotide used in example 2 for preparation of a
building
109        block
W--> 110 <220> FEATURE:
111 <221> NAME/KEY: misc_feature
112 <222> LOCATION: (21)..(21)
113 <223> OTHER INFORMATION: Oligonucleotide used in example 2 for preparation of a
building
114        block
W--> 115 <400> SEQUENCE: 7
W--> 116 gcgacctgga gcatccatcg n 21
117 <210> SEQ ID NO: 8
118 <211> LENGTH: 16
119 <212> TYPE: DNA
120 <213> ORGANISM: Artificial Sequence
W--> 121 <220> FEATURE:
122 <223> OTHER INFORMATION: Oligonucleotide used in example 2 for preparation of a
building
123        block
W--> 124 <220> FEATURE:
125 <221> NAME/KEY: misc_feature
126 <222> LOCATION: (16)..(16)
127 <223> OTHER INFORMATION: Oligonucleotide used in example 2 for preparation of a
building
128        block
W--> 129 <400> SEQUENCE: 8
W--> 130 gacgagcatc catcgn 16
131 <210> SEQ ID NO: 9
132 <211> LENGTH: 21
133 <212> TYPE: DNA
134 <213> ORGANISM: Artificial Sequence
W--> 135 <220> FEATURE:
136 <223> OTHER INFORMATION: Oligonucleotide used in example 2 for preparation of a
building
137        block

```

W--> 138 <220> FEATURE:
139 <221> NAME/KEY: misc_feature
140 <222> LOCATION: (21)..(21)

RAW SEQUENCE LISTING

DATE: 05/04/2006

PATENT APPLICATION: US/10/527,449

TIME: 13:34:44

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\05042006\J527449.raw

141 <223> OTHER INFORMATION: Oligonucleotide used in example 2 for preparation of a building
142 block
W--> 143 <400> SEQUENCE: 9
W--> 144 ctagggacga gcatccatcg n 21
145 <210> SEQ ID NO: 10
146 <211> LENGTH: 23
147 <212> TYPE: DNA
148 <213> ORGANISM: Artificial Sequence
W--> 149 <220> FEATURE:
150 <223> OTHER INFORMATION: Oligonucleotide used in example 2 for preparation of a template
W--> 151 <220> FEATURE:
152 <221> NAME/KEY: misc_feature
153 <222> LOCATION: (1)..(1)
154 <223> OTHER INFORMATION: n is Amino-Modifier C6 dC (Glen Research, catalogue # 10-1019-90)
W--> 155 <220> FEATURE:
156 <221> NAME/KEY: misc_feature
157 <222> LOCATION: (23)..(23)
158 <223> OTHER INFORMATION: n is PC Biotin (Glen Research, catalogue # 10-4950-95)
W--> 159 <400> SEQUENCE: 10
W--> 160 ngatggatgc tcccaggtcg can 23
161 <210> SEQ ID NO: 11
162 <211> LENGTH: 22
163 <212> TYPE: DNA
164 <213> ORGANISM: Artificial Sequence
W--> 165 <220> FEATURE:
166 <223> OTHER INFORMATION: Oligonucleotide used in example 2 for preparation of a template
W--> 167 <220> FEATURE:
168 <221> NAME/KEY: misc_feature
169 <222> LOCATION: (1)..(1)
170 <223> OTHER INFORMATION: n is Amino-Modifier C6 dC (Glen Research, catalogue # 10-1019-90)
W--> 171 <220> FEATURE:
172 <221> NAME/KEY: misc_feature
173 <222> LOCATION: (22)..(22)
174 <223> OTHER INFORMATION: n is PC Biotin (Glen Research, catalogue # 10-4950-95)
W--> 175 <400> SEQUENCE: 11
W--> 176 cgatggatgc tcgtccctag an 22

Save Error

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/527,449

DATE: 05/04/2006
TIME: 13:34:45

Input Set : A:\seqlist.txt
Output Set: N:\CRF4\05042006\J527449.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 1
Seq#:2; N Pos. 1,14
Seq#:3; N Pos. 1,17
Seq#:4; N Pos. 1,22
Seq#:5; N Pos. 13
Seq#:6; N Pos. 16
Seq#:7; N Pos. 21
Seq#:8; N Pos. 16
Seq#:9; N Pos. 21
Seq#:10; N Pos. 1,23
Seq#:11; N Pos. 22

VERIFICATION SUMMARY

DATE: 05/04/2006

PATENT APPLICATION: US/10/527,449

TIME: 13:34:45

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\05042006\J527449.raw

L:3 M:283 W: Missing Blank Line separator, <120> field identifier
L:4 M:283 W: Missing Blank Line separator, <130> field identifier
L:5 M:270 C: Current Application Number differs, Replaced Current Application No
L:5 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:9 M:283 W: Missing Blank Line separator, <160> field identifier
L:11 M:283 W: Missing Blank Line separator, <210> field identifier
L:15 M:283 W: Missing Blank Line separator, <220> field identifier
L:17 M:283 W: Missing Blank Line separator, <220> field identifier
L:21 M:283 W: Missing Blank Line separator, <400> field identifier
L:22 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:27 M:283 W: Missing Blank Line separator, <220> field identifier
L:29 M:283 W: Missing Blank Line separator, <220> field identifier
L:34 M:283 W: Missing Blank Line separator, <220> field identifier
L:38 M:283 W: Missing Blank Line separator, <400> field identifier
L:39 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:44 M:283 W: Missing Blank Line separator, <220> field identifier
L:47 M:283 W: Missing Blank Line separator, <220> field identifier
L:52 M:283 W: Missing Blank Line separator, <220> field identifier
L:56 M:283 W: Missing Blank Line separator, <400> field identifier
L:57 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:62 M:283 W: Missing Blank Line separator, <220> field identifier
L:65 M:283 W: Missing Blank Line separator, <220> field identifier
L:70 M:283 W: Missing Blank Line separator, <220> field identifier
L:74 M:283 W: Missing Blank Line separator, <400> field identifier
L:75 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:80 M:283 W: Missing Blank Line separator, <220> field identifier
L:83 M:283 W: Missing Blank Line separator, <220> field identifier
L:87 M:283 W: Missing Blank Line separator, <400> field identifier
L:88 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:93 M:283 W: Missing Blank Line separator, <220> field identifier
L:96 M:283 W: Missing Blank Line separator, <220> field identifier
L:101 M:283 W: Missing Blank Line separator, <400> field identifier
L:102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:107 M:283 W: Missing Blank Line separator, <220> field identifier
L:110 M:283 W: Missing Blank Line separator, <220> field identifier
L:115 M:283 W: Missing Blank Line separator, <400> field identifier
L:116 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:121 M:283 W: Missing Blank Line separator, <220> field identifier
L:124 M:283 W: Missing Blank Line separator, <220> field identifier
L:129 M:283 W: Missing Blank Line separator, <400> field identifier
L:130 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:135 M:283 W: Missing Blank Line separator, <220> field identifier
L:138 M:283 W: Missing Blank Line separator, <220> field identifier
L:143 M:283 W: Missing Blank Line separator, <400> field identifier
L:144 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:149 M:283 W: Missing Blank Line separator, <220> field identifier
L:151 M:283 W: Missing Blank Line separator, <220> field identifier
L:155 M:283 W: Missing Blank Line separator, <220> field identifier

VERIFICATION SUMMARY

DATE: 05/04/2006

PATENT APPLICATION: US/10/527,449

TIME: 13:34:45

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\05042006\J527449.raw

L:159 M:283 W: Missing Blank Line separator, <400> field identifier
L:160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:165 M:283 W: Missing Blank Line separator, <220> field identifier
L:167 M:283 W: Missing Blank Line separator, <220> field identifier
L:171 M:283 W: Missing Blank Line separator, <220> field identifier
L:175 M:283 W: Missing Blank Line separator, <400> field identifier
L:176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0